



## **Department of Science & Humanities**

### **INDUSTRIAL VISIT REPORT**

Our First year EEE & Mechanical students have visited “SOLAR POWER PLANT” located at Aarupadai Veedu Institute of Technology – Chennai, on 27.07.18.

Mr. Senthil Kumar (AP/Department of Chemistry) & Mrs. P.M.P. Sucila Devi(AP/ Department of Mathematics) accompanied nearly 47 students of both a discipline.

The aim of the solar power plant is the use of Renewable Energy Sources. 126 KWp solar power plants has been setup on the top of the main building. To that extent EB consumption has been reduced and hence non-renewable energy consumption to generate 126 KW is reduced and also CO<sub>2</sub> , SO<sub>2</sub> ,SPM emissions reduction have been achieved. Various types of plants depending upon the capacity has been established: 26 KWp , 100 KWp, 126 KWp Grid connected Roof Top solar power plant.

Also 3.2 KW stand alone wind mill was installed. It has a 3 phase Brushless permanent Magnet synchronous generator, and the output of the generator is used to charge the batteries through a charge controller. The output of the batteries is converted to AC using a 1.5 KVA inverter and is used in the Campus

Explanation about the Solar Power Plant by Mr. Rattan Kumar, Assistant Professor / Department of EEE- AVIT



Over view of the 126 KWp Grid connected Roof Top solar power plant.





Demonstration about the Solar Power Plant Mr. Rattan Kumar, Assistant Professor / Department of EEE- AVIT



Solar Lab / Department of EEE- AVIT

